

Title (en)
CHARGING DEVICE AND CHARGING METHOD

Title (de)
LADEGERÄT UND LADEVERFAHREN

Title (fr)
DISPOSITIF ET PROCEDE DE CHARGE

Publication
EP 1548911 A4 20120425 (EN)

Application
EP 03795406 A 20030911

Priority
• JP 0311653 W 20030911
• JP 2002268110 A 20020913

Abstract (en)
[origin: EP1548911A1] Charging a secondary battery (39) provided within wireless headphones (15) is carried out in a reliable manner by a charger (16) when the wireless headphones (15) are not in use. An engaged section (30) and electrodes (31) are provided at the bottom portion of a case (20) of the headphones (15). An engaging section (37) constituted by a pawl and a contact member (38) is provided on a receptacle surface (36) of a supporting plate (35) on the side of the battery charger (16). In the event that the headphones (15) are then mounted on the battery charger (16) so that the engaged section (30) is engaged by the engaging section (37) on the side of the battery charger (16), the electrodes (31) of the headphones (15) are press-attached against the contact members (38) on the side of the battery charger (16) as a result of the leverage principle.
<IMAGE>

IPC 8 full level
H02J 7/00 (2006.01); **H04R 1/10** (2006.01); **H01M 10/46** (2006.01); **H04M 1/05** (2006.01); **H04R 5/033** (2006.01); **H04M 1/60** (2006.01)

CPC (source: EP US)
H02J 7/0044 (2013.01 - EP US); **H04R 1/1025** (2013.01 - EP US); **H04R 1/1008** (2013.01 - EP US); **H04R 5/033** (2013.01 - EP US)

Citation (search report)
• [X1] US 5689171 A 19971118 - LUDEWIG CHRISTOPHER J [US]
• [A] US 3906160 A 19750916 - NAKAMURA SHOICHI, et al

Cited by
EP2309618A1; EP2521242A1; US7746028B1; EP2309772A1; CN110024416A; US8571251B2; US9184474B2; US7457649B1; EP3512211A1; CN110035345A; WO2018146088A1; WO2010063594A1; WO2010065559A1; WO2009135674A1; US10880631B2

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